



ATTESTATION OF CONFORMITY

No. 30102115-Consulting 10-2274

Issued to:

ABB
SA Products
Nätverksgatan 3, B391, Finnslätten
721 59 Västerås, Sweden

for the product:

REC 650
Type: Slave station
Product version 1.1.0
Firmware version 1.1.0.14

With the implemented communication protocol:

IEC 60870-5-103 (IS 1998)

Companion Standard for basic telecontrol tasks and the protocol implementation description in the ABB IEC60870-5-103 interoperability CP1.1 document, version May 21, 2010.

The product has not been shown to be non-conforming to the specified protocol standard, including the interface requirements.

End-to-End data element tests for the information and control points as described in manufacturer Protocol Implementation Conformance Statement (PICS) have been performed on the product's protocol implementation. Functional tests in controlled mode are performed for the following levels:

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|--|--|
| <ul style="list-style-type: none">• Station initialization in Unbalanced mode• Cyclic data transmission• Acquisition of events | <ul style="list-style-type: none">• General Interrogation• Clock synchronisation• Transmission of disturbance data |
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The test campaign did not reveal any errors in the product's protocol implementation.

This Attestation is granted on account of tests made at location of KEMA in Arnhem, The Netherlands and performed with UnIECim 60870-5-103 version 2.17.03 (April 2008) running CS103 Test Suite version CS103MasterNormal 2.3. The results, including remarks and limitations, are laid down in our report no. 30102115-Consulting 10-2273.

The tests have been carried out on one single specimen of the product, submitted by ABB. The Attestation does **not** include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by KEMA is not the responsibility of KEMA.

Arnhem, November 1, 2010

W. Strabbing
Manager Intelligent Networks and Communication


P.H.S. Ermens
Test Consultant

IMPORTANT: Remarks apply to this implementation. See the resulting report for full details
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